ABSTRACT OF THE DISCLOSURE

An electromagnetic actuator comprises:

- a core with a coil wound around;
- a stator magnetically coupled at both ends of the core;
- a movable element that can be displaced relative to the stator; and
- a supporting means for supporting the movable element,

wherein the stator and the movable element each have a projection and a depression perpendicular to their respective displacement directions and are placed in such a way that the projection and depression of the stator engage with the projection and depression of the movable element.

5

15